**AP Calculus AB Chapter 2 Homework Assignments**

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| **Assignment Name** | **Pages and Problems** |
| 2.1A | Page 103 #1-10 |
| 2.1B | Page 104 #11-41 odd, 57 |
| 2.1C | Page 104 #71-79 odd, #81-89 all |
| 2.2A | Page 115 #1-57 odd, 63 |
| 2.3A | Page126 #1-53 every other odd (Note: Skip # 45) |
| 2.3B | Page 126 #65, 69, 73 77-81 |
| 2.4A | Page 137 #1-31 odd |
| 2.4B | Page 137 #41-73 odd |
| 2.4C | Page 137 #81-90 odd, 98, 99 |
| 2.5A | Page 146 #1-57 every other odd (omit #41) |
| 2.5B | Complete the 2.5 day 2 worksheet |
| 2.6A | Complete the 2.6 day 1 worksheet |
| 2.6B | Complete the 2.6 day 2 worksheet |
| 2.6C | Page 154 #13, 15-17, 22, 23, 27 |
| 2.6D | Page 156 #28, 35, 36, 44, 48 |
| 2.6E | Complete the 2.6 day 3-5 worksheet |
| Chapter 2 Review | Page 158#2, 7, 39-53odd, 59, 67, 71, 73, 75, 80, 93, 103, 105, 107, 109, 110 |
| Linear Approximation | Page 240 #1-6, 49-52 |

In addition to these assignments, review worksheets and readings will be given. Please label each homework assignment with the assignment name, page(s) and problems.

**Big Ideas Learned in Chapter 2**

* Find the slope of a tangent or normal line to a curve at a point.
* Use the limit definition to find the derivative of a function.
* Understand the relationship between continuity and differentiability.
* Find derivatives of functions using Power, Sum and Difference, Constant Multiple, Product and Quotient Rules.
* Find derivatives of trig functions.
* Use derivatives to find rates of change.
* Find a higher-order derivative of a function (ex. ).
* Find the derivative of composite functions using the Chain Rule.
* Distinguish between functions written in implicit form and explicit form.
* Use implicit differentiation to find the derivative of a function.
* Find and use related rates to solve application problems.
* Understand and use the relationships between position, velocity and acceleration to solve problems.

**Topics I need to review before the Chapter Test:**